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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

## Complete if Known

Application Number	09/975,253-Conf. #8837
Filing Date	October 12, 2001
First Named Inventor	Paul A. Moore
Examiner Name	S. L. Wegert
Art Unit	1647
Attorney Docket No.	PF196P1

TOTAL AMOUNT OF PAYMENT (\$) 1,330.00

### METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit  
Account  
Number

08-3425

Deposit  
Account  
Name

Human Genome Sciences, Inc.

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

### FEE CALCULATION (continued)

#### 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Fee Fee Fee

Code (\$) Code (\$)

Fee Description

Fee Paid

1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
Other fee (specify)	1454			Acceptance of an unintentionally delayed claim for priority	1,330.00

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 1,330.00

### FEE CALCULATION

#### 1. BASIC FILING FEE

Large Entity Small Entity

Fee Fee Fee Fee

Code (\$) Code (\$)

Fee Description

Fee Paid

1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$) 0.00

#### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims 27 -36\*\* = Extra Claims x Fee from below = Fee Paid 0.00

Independent Claims 2 -3\*\* = x = Fee Paid 0.00

Multiple Dependent x = Fee Paid

Multiple Dependent

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SUBTOTAL (2) (\$) 0.00

\*\*or number previously paid, if greater; For Reissues, see above

### SUBMITTED BY

Name (Print/Type) Mark J. Hyman

Registration No.  
(Attorney/Agent)

46,789

(Complete (if applicable))

Telephone (240) 314-1224

Signature

Date

July 26, 2004



DAC / IFW  
A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Moore et al.

Docket No.: PF196P1

Application No.: 09/975,253

Confirmation No.: 8837

Filed: October 12, 2001

Art Unit: 1647

For: Methods and Composition for Treating and  
Preventing Infection Using Human Interferon  
Regulatory Factor 3

Examiner: S. L. Wegert

**PROVISIONAL ELECTION UNDER 37 C.F.R. § 1.143 WITH TRAVERSE AND  
AMENDMENT UNDER 37 C.F.R. § 1.111**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Office Action mailed June 30, 2004, please consider the following amendments, traversal, provisional election, and remarks. Applicants respectfully request that the Examiner enter the following amendments prior to examination of the captioned application. Applicants submit concurrently herewith: (a) a Fee Transmittal Sheet with appropriate fee; (b) a Supplemental Application Data Sheet; and (c) a Petition to Accept Unintentionally Delayed Benefit Claim Under 37 C.F.R. §§ 1.78(a)(3) and/or (6).

Please amend the application as follows:

07/27/2004 ZJU HAR1 00000020 083425 09975253

01 FC:1454 1330.00 DA

**In the Specification:**

Please replace paragraph [0001] with the following rewritten paragraph:

[0001] This application claims benefit under 35 U.S.C. § 119(e) ~~based on~~ of U.S. Provisional Application No. 60/239,936, filed October 13, 2000; this application is also and is a continuation-in-part of U.S. Application No. 09/417,540, filed October 14, 1999 (now U.S. Patent No. 6,639,052, issued October 28, 2003), which is a divisional of, and claims benefit under 35 U.S.C. § 120 of U.S. Non-Provisional Application Serial No. 08/705,771, filed August 30, 1996 (now U.S. Patent U.S. Patent No. 6,054,289, issued April 25, 2000), which claims benefit under 35 U.S.C. § 119(e) based on of U.S. Provisional Application No. 60/002,993, filed August 30, 1995, each of which U.S. Application Nos. 60/239,936, 08/705,771, and 60/002,993 are hereby incorporated by reference in their entireties.

### **Amendments to the Claims:**

The following listing of claims will replace all prior versions and listings of claims.

### **Listing of Claims**

1. (original) An isolated polynucleotide comprising a nucleic acid sequence selected from the group consisting of:
  - (a) a polynucleotide encoding amino acids 1-427 of SEQ ID NO:2
  - (b) a polynucleotide encoding amino acids 1-407 of SEQ ID NO:2;
  - (c) a polynucleotide encoding amino acids 2-427 of SEQ ID NO:2;
  - (d) a polynucleotide encoding amino acids 198-381 of SEQ ID NO:2;
  - (e) a polynucleotide encoding amino acids 382-407 of SEQ ID NO:2;
  - (f) a polynucleotide encoding amino acids 408-427 of SEQ ID NO:2;
  - (g) a polynucleotide encoding amino acids 306-427 of SEQ ID NO:2;
  - (h) a polynucleotide encoding the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. 97242;
  - (i) a polynucleotide encoding at least 30 contiguous amino acids of SEQ ID NO:2 or the cDNA clone contained in ATCC Deposit No. 97242;
  - (j) a polynucleotide encoding at least 50 contiguous amino acids of SEQ ID NO:2 or the cDNA clone contained in ATCC Deposit No. 97242;
  - (k) a polynucleotide of at least 30 contiguous nucleotides of SEQ ID NO:1 or the coding strand of the cDNA clone contained in ATCC Deposit No. 97242;
  - (l) a polynucleotide of at least 40 contiguous nucleotides of SEQ ID NO:1 or the coding strand of the cDNA clone contained in ATCC Deposit No. 97242;
  - (m) a polynucleotide of at least 50 contiguous nucleotides of SEQ ID NO:1 or the coding strand of the cDNA clone contained in ATCC Deposit No. 97242;
  - (n) a polynucleotide of at least 60 contiguous nucleotides of SEQ ID NO:1 or the coding strand of the cDNA clone contained in ATCC Deposit No. 97242; and
  - (o) the complement of (a), (b), (c), (d), (e), (f), (g), (h), (i), (j), (k), (l), or (m).
2. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (a).
3. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (b).
4. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (c).

5. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (d).
6. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (e).
7. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (f).
8. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (g).
9. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (h).
10. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (i).
11. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (j).
12. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (k).
13. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (l).
14. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (m).
15. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (n).
16. (original) The isolated polynucleotide of claim 1, wherein said polynucleotide is (o).
17. (original) The isolated polynucleotide of claim 1 fused to a heterologous polynucleotide.
18. (original) The isolated polynucleotide of claim 17, wherein the heterologous polynucleotide encodes for a heterologous polypeptide.
19. (original) The isolated polynucleotide of claim 1, wherein the polynucleotide is double stranded.
20. (original) A recombinant vector comprising the polynucleotide of claim 1.
21. (original) The vector of claim 20 wherein the vector is a viral vector.
22. (original) The vector of claim 21 wherein the viral vector is a retroviral vector.
23. (original) A host cell comprising the polynucleotide of claim 1.

24. (original) A host cell comprising the polynucleotide of claim 1, wherein said polynucleotide is operatively associated with a heterologous regulatory sequence.
25. (original) An isolated polynucleotide that hybridizes to SEQ ID NO:1 or the cDNA clone contained in ATCC Deposit No. 97272, wherein said hybridization takes place under stringent hybridization conditions.
26. (original) A method of producing a protein comprising:  
(a) culturing the host cell of claim 23 under conditions such that said protein is expressed; and  
(b) recovering said protein.
27. (canceled)
28. (original) A method of gene therapy for preventing, treating, or ameliorating an infectious disease comprising administering to a mammal a polynucleotide of claim 1.
- 29-36. (canceled)

### ***Remarks***

Applicants have canceled claims 27 and 29-36 without prejudice or disclaimer.

Applicants have also amended the benefit claim as discussed in the Petition for Acceptance of Unintentionally Delayed Benefit Claim submitted herewith, and updated the address of inventor Moore.

Claims 1-26 and 28 are pending.

### ***The Restriction Requirement***

Pursuant to the Office Action mailed June 30, 2004, the Examiner has required an election under 35 U.S.C. § 121 of one of Groups I to III. The Examiner contends that the inventions of the Groups are distinct, each from the other.

In order to be fully responsive, Applicants provisionally elect, *with traverse*, the subject matter of Group I, directed to, *inter alia*, polynucleotides, represented by original claims 1-26. Applicants point out that claims 27 and 29-36 have been canceled without prejudice or disclaimer.

With respect to the Examiner's restriction of groups directed to a nucleic acid sequence, antibodies recognizing such polypeptides, and methods of using the same, Applicants traverse. Even where patentably distinct inventions appear in a single application, restriction remains improper unless the examiner can show that the search and examination of these groups would entail a "serious burden". *See* M.P.E.P. § 803. In the present situation, although the Examiner has argued that Groups I-III are separately classified or represent divergent subject matter, Applicants nonetheless submit that, with respect to a given gene, a search of the claims of the groups directed to that gene would also provide useful information for the claims of the other groups directed to that gene. For example, in many if not most publications disclosing a gene, the authors also disclose the encoded protein, antibodies to the protein, and methods of using the same. Thus, since the searches for nucleic acids, antibodies to the proteins encoded thereby, and methods of using the same commonly overlap, Applicants respectfully disagree with the Examiner's assertion that the combined search and examination of such compositions and methods using the same would entail a serious burden, even assuming *arguendo* that all of the searches were not coextensive.

Accordingly, in view of M.P.E.P. § 803, claims directed to the Groups I to III should be searched and examined in the present application. Applicants therefore respectfully request that

the restriction requirement under 35 U.S.C. § 121 be reconsidered and withdrawn. Applicants retain the right to petition from the restriction requirement under 37 C.F.R. § 1.144.

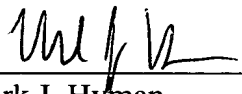
***Conclusion***

Entry of the above amendment is respectfully solicited. The Examiner is invited to call the undersigned at the phone number provided below if any further action by Applicants would expedite the examination of this application.

If there are any fees due in connection with the filing of this paper, please charge the fees to our Deposit Account No. 08-3425. If a fee is required for an extension of time under 37 C.F.R. § 1.136, such an extension is requested and the appropriate fee should also be charged to our Deposit Account.

Dated: July 26, 2004

Respectfully submitted,

By   
Mark J. Hyman

Registration No.: 46,789  
HUMAN GENOME SCIENCES, INC.  
Intellectual Property Dept.  
14200 Shady Grove Road  
Rockville, Maryland 20850  
(240) 314-1224



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Moore et al.

Docket No.: PF196P1

Application No.: 09/975,253

Confirmation No.: 8837

Filed: October 12, 2001

Art Unit: 1647

For: Methods and Composition for Treating and  
Preventing Infection Using Human Interferon  
Regulatory Factor 3

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Examiner: S. L. Wegert

**PETITION TO ACCEPT UNINTENTIONALLY DELAYED BENEFIT CLAIM  
UNDER 37 C.F.R. §§ 1.78(a)(3) AND/OR (6)**

MS Petitions  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The instant application directly claims benefit under 35 U.S.C. § 120 of U.S. App. No. 08/705,771, and through that application indirectly claims benefit under 35 U.S.C. § 119(e) of U.S. Provisional App. No. 60/002,993.<sup>1</sup> However, it has come to the attention of the undersigned that this application unintentionally omits a benefit claim under 35 U.S.C. § 120 to U.S. App. No. 09/417,540, which is a divisional application of the '771 application. As the instant application was copending with the '540 application, but not the '771 application (which issued April 25, 2000), correction of this unintentional omission is necessary to retain the benefit of the filing date of the '771 and '993 applications. Thus, Applicants hereby petition for acceptance of the unintentionally delayed benefit claims.

In support of this request, Applicants note the following:

1. A proper reference to the prior applications as required by 35 U.S.C. §§ 119(e) and 120, and 37 C.F.R. §§ 1.78(a)(2) and (5), is contained in both the Provisional Election Under 37 C.F.R. § 1.143 with Traverse and Amendment Under 37 C.F.R. § 1.111 and the Supplemental Application Data Sheet submitted herewith.

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<sup>1</sup> This application also directly claims benefit under 35 U.S.C. § 119(e) of U.S. Provisional App. No. 60/239,936. This benefit claim was properly made and is not affected by the error discussed herein.

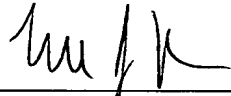
2. The surcharge set forth in 37 C.F.R. § 1.17(t) has been authorized to be paid from Deposit Account No. 08-3425, as itemized on the enclosed Fee Transmittal Sheet.
3. The undersigned hereby states that the entire delay between the date the benefit claim was due under 37 C.F.R. §§ (a)(2)(ii) and (a)(5)(ii) and the date the claim was filed was unintentional.

Accordingly, as the above submissions fully satisfy the requirements of 37 C.F.R. §§ 1.78(a)(3) and (a)(6), Applicants respectfully request that the instant petition be granted, and that the unintentionally delayed benefit claim submitted herewith be accepted and entered in the instant application.

If any further action by Applicants is required, please call the undersigned at the phone number provided below. If there are any additional fees due in connection with the filing of this paper, please charge the fees to our Deposit Account No. 08-3425.

Dated: July 26, 2004

Respectfully submitted,

By  \_\_\_\_\_

Mark J. Hyman

Registration No.: 46,789

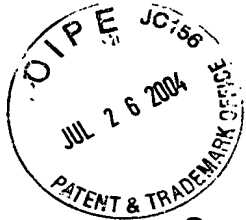
HUMAN GENOME SCIENCES, INC.

Intellectual Property Dept.

14200 Shady Grove Road

Rockville, Maryland 20850

(240) 314-1224



## **Supplemental Application Data Sheet**

### **Application Information**

Application number::	09/975,253
Filing Date::	10/12/01
Application Type::	Regular
Subject Matter::	Utility
CD-ROM or CD-R?::	None
Sequence submission?::	Paper
Computer Readable Form (CRF)?::	Yes
Number of copies of CRF::	1
Title::	Methods and Compositions for Treating and Preventing Infection Using Human Interferon Regulatory Factor 3
Attorney Docket Number::	PF196P1
Request for Early Publication?::	No
Request for Non-Publication?::	No
Total Drawing Sheets::	4
Small Entity?::	No
Petition included?::	No
Secrecy Order in Parent Appl.?::	No

### **Applicant Information**

Applicant Authority Type::	Inventor
Primary Citizenship Country::	United Kingdom
Status::	Full Capacity
Given Name::	Paul
Middle Name::	A.
Family Name::	Moore
City of Residence::	<u>North Bethesda</u>
State or Province of Residence::	MD
Country of Residence::	US

Street of mailing address:: 7013 Old Gate Road  
City of mailing address:: North Bethesda  
State or Province of mailing address:: MD  
Postal or Zip Code of mailing address:: 20852

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: US  
Status:: Full Capacity  
Given Name:: Paula  
Family Name:: Pitha-Rowe  
City of Residence:: Baltimore  
State or Province of Residence:: MD  
Country of Residence:: US  
Street of mailing address:: 4000 N. Charles Street  
Unit 1612  
City of mailing address:: Baltimore  
State or Province of mailing address:: MD  
Postal or Zip Code of mailing address:: 21218

### **Correspondence Information**

Correspondence Customer Number:: 22195

### **Representative Information**

Representative Customer Number:: 22195

### Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
This Application	An application claiming the benefit under 35 USC 119(e)	60/239,936	10/13/00
This Application	Continuation-in-part of	<del>08/705,771</del> <u>09/417,540</u>	<del>08/30/96</del> <u>10/14/99</u>
<u>09/417,540</u>	<u>Division of</u>	<u>08/705,771</u>	<u>08/30/96</u>
08/705,771	An application claiming the benefit under 35 USC 119(e)	60/002,993	08/30/95

### Assignee Information

Assignee name:: Human Genome Sciences, Inc.  
Street of mailing address:: 14200 Shady Grove Road  
City of mailing address:: Rockville  
State or Province of mailing address:: MD  
Postal or Zip Code of mailing address:: 20850

Assignee name:: Johns Hopkins University  
Street of mailing address:: 3400 N. Charles Street  
City of mailing address:: Baltimore  
State or Province of mailing address:: MD  
Postal or Zip Code of mailing address:: 21218